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United States Army
Redstone Technical Test Center (RTTC)

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Overview

The Redstone Technical Test Center is continuing to expand and refine the integration of modeling, simulation, and Hardware-in-the-Loop (HWIL) tools into traditional testing. RTTC will apply this evolving technology to test program design, data analysis and visualization, and validation of models and simulations. The Center will continue to work with private industry and the AMRDEC to acquire and apply new modeling and simulation tools.

HWIL test of HELLFIRE missile

Virtual missile flight during HWIL testing

The center is continuing to expand and enhance its "virtual range," a capability that will reduce the time and cost for future evaluations of missiles, aircraft and unmanned vehicle sensor, seeker, and target acquisition subsystems. A "Multi-Spectral" virtual range will be created to support laboratory development of next generation weapon and surveillance systems.

VPG-virtual visible scenes at TA-3

The Center has a High Performance Computer networked to both hardware test facilities and the aviation and missile research laboratories via a very high capacity fiber optic

network. RTTC will continue to work with other development and testing organizations to develop a modeling, simulation and testing architecture that enables "plug and play" type interaction of digital simulations, Hardware-in-the-Loop, and test and evaluation capabilities. Through use of the "defense networks," RTTC will perform state-of-the-art distributed testing with advanced testing capabilities elsewhere in DTC, ATEC, And DoD.

High Performance Computer (HPC)

HPC work stations

Dynamic IR Scene Projector (DIRSP)

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Last updated January 2, 2002

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